

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A method of filling an order using a product moving device that engages and supports a pallet in a store, comprising:

receiving a list transmitted to a first device coupled to the pallet, the list including a plurality of items that at least one item are representative of the order;

transmitting the list from the first device to a second device on the product moving device;

displaying the list to an operator on a display device on the product moving device, the display of the list including, for each of the plurality of items, a quantity of the item needed for the order, a quantity of the item currently present on the pallet, and a quantity of the item remaining to be placed on the pallet to complete the order;

placing one of the plurality of an items on the list on the pallet;

detecting the one of the plurality of an items placed on the pallet by receiving a signal from a tag on the item and identifying the item based on the received signal;

reflecting detection of the one of the plurality of items on the list displayed on the display device, the detection being reflected by adding the number of the one of the plurality of items detected to the quantity of the item currently present on the pallet, and by deducting the number of the one of the plurality of items detected from the quantity of the item remaining to be placed on the pallet to complete the order; and

electronically displaying, at the product moving device, a route within the store for the operator to travel with the product moving device to obtain all remaining items on the list.

2. (Cancelled)

3. (Currently Amended) The method of claim 1 further comprising: wherein receiving the signal

~~includes:~~

~~receiving data from the tag related to the item at the pallet.~~

adding information about the one of the plurality of items to an RF tag on the pallet, the information including a name of the item, a description of the item, an item ID, and a weight of the item.

4. (Currently Amended) The method of claim ~~4~~ 3 further comprising: ~~wherein receiving the signal~~
further includes:

~~receiving a radio frequency (RF) signal from the tag on the item.~~

adding information to the tag on the one of the plurality of items, the information including a date and a time the item was added to the pallet.

5. (Currently Amended) The method of claim ~~4~~ 4 further comprising: ~~wherein receiving the list~~
further comprises:

~~receiving a number desired for each of the at least one item.~~

providing delivery and transport information to the RF tag on the pallet, the information including a delivery address, a freight company, and interim transit points.

6. (Currently Amended) The method of claim 5 wherein displaying the list further comprising:
displaying information for each of the plurality of items on separate lines of the display device;

displaying different types of information for each of the plurality of items in separate columns within each of lines; and the desired number of the at least one item from the list on the display device on the product moving device.

wherein one of the separate columns includes location information for each of the plurality of items.

7. (Currently Amended) The method of claim ~~6~~ 5 and after detecting further comprising:

~~deducting the number of the item detected from the desired number of the item in the~~

~~order; and~~
~~updating the display device to reflect a new number of the item remaining to fill the~~
~~order.~~
storing information associated with the product moving device to the RF tag on the pallet,
the information including an indication of a forklift, the operator, and a time of
day.

8. (Currently Amended) The method of claim ~~4~~5 further comprising:

receiving an indication of a next item in the list to load on the product moving device;
displaying on the display device the next item on the list; and
displaying on the display device a map, the map including the locations of the next item
on the list and the product moving device.

9. (Currently Amended) The method of claim 8 further comprising:

displaying on the display device the next item on the list; map locations of other product
moving devices and blocked aisles.

10. (Currently Amended) The method of claim 9 further comprising:

~~highlighting on the display device the next item to obtain on the list;~~
displaying on the map a routing to the next item.

11. (Currently Amended) The method of claim 1 further comprising:

receiving at the display device an indication of specific handling instructions for the
plurality of items~~one of the~~; the specific handling instructions including at least
one item on the list an order in which to load the plurality of items onto the pallet.

12. (Cancelled)

13. (Currently Amended) The method of claim ~~9~~1 further comprising:

~~receiving an indication of a direction to a next item on the list.~~

adding information related to storage of the one of the plurality of items to the tag on the one of the plurality of items.

14. (Currently Amended) The method of claim 1 further comprising:

querying the operator about additional items not on the list; and

preventing the moving device from moving upon an item not on the list being placed on the pallet.

15. (Currently Amended) The method of claim 1 further comprising:

determining if ~~the~~ a second detected item is on the list; and

providing an indication to the operator if the second detected item is not on the list;

adding the second detected item to the list on the display device; and

displaying the second detected item in a format different from the plurality of items that were originally on the list.

16. (Currently Amended) The method of claim 15 wherein the second detected item is displayed in bold. further comprising:

~~adding the detected item to the list on the display device~~

17. (Currently Amended) The method of claim ~~16~~ 15 wherein the second detected item is displayed in a different color than the plurality of items. further comprising:

~~displaying on the display device the detected item in a format different from the at least one item originally on the list.~~

18. (Currently Amended) The method of claim 1 further comprising:

accessing additional data about the one of the at least one plurality of items on the list through the display device; and

returning to the list after a predetermined period of time.

19. (Currently Amended) The method of claim 18 wherein accessing the additional data further comprising:

~~using a user interface component of the display device to access the additional data for the at least one item;~~

touching a representation of the one of the plurality of items on a touch screen.

20. (Currently Amended) The method of claim 1 wherein when a last item on the list is placed on the product moving device, the method further comprising:

instructing the operator of the product moving device to take the ~~product moving device~~ pallet to a specific location/truck;

reading the RF tag on the pallet with an RF reader on the specific truck; and
recording the pallet as being loaded on the specific truck.

21. (Cancelled)

22. (Currently Amended) An order filling system comprising:

a first computer system;

a picklist containing a list of desired items to fill an order;

a product moving machine having a first reader disposed thereon, connected to the first computer system;

a pallet having a tag and a second reader disposed thereon, the tag readable by the first reader on the product moving machine, the tag storing a pallet identification and data related to the order including the picklist in a form readable by the reader, the pallet identification being associated with the order in the first computer system and wherein the tag-second reader is configured to read data from an item tag disposed on each of the items that is placed on the pallet;

a display device connected to the product moving machine configured to display the picklist; ~~and~~

wherein the picklist is generated at the first computer system and transmitted to the first reader on the product moving machine; and
wherein the pallet tag is updated to include information from the item tag of each of the items placed on the pallet.

23-24. (Cancelled)

25. (Currently Amended) The order filling system of claim 22 wherein the product moving machine is a forklift, and wherein the pallet tag is placed on an inside portion of a support on the pallet.

26-27. (Cancelled)

28. (Currently Amended) The order filling system of claim ~~27~~22 wherein the reader of the product moving machine is configured to receive information from the tag on the pallet as items are placed on the pallet, and wherein the pallet tag and the second reader are integrated into a single unit.

29. (Currently Amended) The order filling system of claim 22 wherein the display device comprises:

- an order information area having an order number area, a pallet ID number area, and a picklist area, the order number area displaying a number that identifies the order, the pallet ID number area displaying a number that identifies the pallet, and the picklist area including information about the order, the information including, for each of the items in the list, a description, a quantity desired, a quantity present, a quantity remaining, and a location;
- a location area having a map of a warehouse, the map showing the location of the product moving machine within the warehouse;
- an information area having instructions, the instructions indicating a specific arrangement

required for placement of items on the pallet; and

a user interface area that allows an operator to view more details about a specific item on the order and to view other options that are not shown on the display device, the user interface area having a plurality of buttons that can be activated by the operator, the user interface further having, above the plurality of buttons, a display portion that provides information relating to a response that is executed by the system when the corresponding button is pressed.

30. (Currently Amended) The order filling system of claim 29 wherein the specific arrangement includes arranging items on the pallet to obtain a correct weight balance, the order information area comprises:

an order number area;

a product loading portion display area configured to display an identifier number for the pallet; and

a picklist area configured to display data related to items on the picklist.

31. (Currently Amended) The order filling system of claim ~~30~~29 wherein the specific arrangement includes placing heavier items on the bottom of the pallet, picklist area comprises:

a description for each item on the picklist;

a quantity of each item required;

a number of each item present on the pallet; and

a number of each item remaining to be picked to finish the picklist.

32. (Cancelled)

33. (Currently Amended) The order filling system of claim ~~31~~29 wherein in response to an item being placed on the pallet, the display device is configured to change the item's number of the item quantity present and the number of the item quantity remaining.

34. (Currently Amended) The order filling system of claim 29 wherein the ~~user interface area comprises a plurality of buttons on the display device~~, include an up button, a down button, and a details button; the up and the down buttons enabling a cursor to move between items in the picklist, and the details button enabling the operator to view details about a selected item.

35. (Currently Amended) The order filling system of claim 34 ~~wherein the user interface is configured to change the information displayed in response to a user input~~, further comprising a button associated with the picklist that enables the operator to return to the screen displaying the picklist.

36. (Currently Amended) The order filling system of claim 29 wherein the display device is configured to provide an audible alert if an item not on the picklist is placed on the pallet.

37. (Currently Amended) The order filling system of claim 22 wherein the tags and the readers operate using radio frequency (RF), the RF selected from the group consisting of 125 kHz, 13.56 MHz, and 800-900 MHz.

38. (Currently Amended) The order filling system of claim 22 further comprising:

a second computer system for generating the picklist, the second computer system having an RF transmitter, and RF receiver, a database, and a user interface, the database including information related to items in a warehouse, the information including, for each of the items in the warehouse, a location of the item within the warehouse, a date the item entered the warehouse, a destination of the item, and an associated order for the item, and wherein the database is a structured query language database; and

a transmission link between the first computer system and the second computer system.

39. (Original) The order filling system of claim 38 further comprising:

a portable electronic device; and

wherein the second computer system transmits the order to the portable electronic device
and the portable electronic device transmits the order to the first computer system.

40. (Cancelled)